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HuddleCam-HD™ 10X-720

USB PTZ Camera Manual

Please read this Manual before setting up and using the camera to ensure it's best performance.

www.HuddleCamHD.com

Providing USB Video Conferencing Solutions for
the 21st Century



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Precautions.....

Safety Tips.....

- Please read this manual carefully before using the camera.
- Avoid damage from stress, violent vibration or liquid intrusion during transportation, storage or installation.
- Take care of the camera during installation to prevent damage to the camera case, ports, lens or PTZ mechanism.
- Do not apply excessive voltage. (Use only the specified voltage.) Otherwise, you may experience electrical shock.
- Keep the camera away from strong electromagnetic sources.
- Do not aim the camera at bright light sources (e.g. bright lights, the sun, etc.) for extended periods of time.
- Do not clean the camera with any active chemicals or corrosive detergents.
- Do not disassemble the camera or any of the camera's components. If problems arise, please contact your authorized dealer.
- After long term operation, moving components can wear down. Contact your authorized dealer for repair.

Supplied Accessories.....

- 10x Zoom 720P USB 2.0 HD Video Conference Camera (1)
- 12V/2.0A DC Power Adapter (1)
- Tripod Mounting System (1)
- Ceiling Mounting System (1)
- USB 2.0 Data Lines (3m), Serial Control Line, RS-232C to RS-485 Cable
- IR Remote Controller



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- Control Cable (1)
- User Manual (1)

Rear Board Connectors.....

High Definition Interface:	USB 2.0
Control Signal Interface:	mini DIN-8 (VISCA IN, VISCA OUT/RS485)
Control Signal Configuration:	Dip-Switch Pin 7/TTL Signal; Baud Rate: 9600bps
Power Supply Interface:	DC 12V Socket

Electrical.....

Power Supply Adapter:	12V DC/2A
Input Voltage:	12V DC (10.5-14V DC)
Input Power:	24W (MAX)

Structure.....

Material:	Aluminum, Plastic
Dimensions (W x H x D):	4.88 in. (123.952mm) x 5.75 in. (146.05mm) x 4.75 in. (120.65mm)
Mass:	1.46 lbs. (0.67kg.)
Working Environment:	Indoor
Operating Temperature:	32°F (-0°C) to 113°F (+45°C)
Storage Temperature:	-14°F (-10°C) to 140°F (+60°C)
Color:	Silver Gray

Rear Board & Function.....



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1. Front View.....



- 1. Lens**
10x Optical Zoom.
- 2. IR Receiver**
To receive IR remote controller signal.
- 3. Power LED**
Blue LED blinks when unit is powered, Orange LED blinks for Stand-By status.
- 4. IR Receiver**
To receive IR remote controller signal.

2. Rear View.....



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5. DC IN 12V Socket

Only use the Power Adapter supplied with this camera.

6. IR Receiver

To receive IR remote controller signals.

7. VISCA IN Port

For hard wired remote control from a 3rd party PC, joystick, etc...

8. VISCA Out Port/RS485

Used for daisy chaining multiple cameras for RS-232 RS-485 control.

9. USB 2.0 Interface

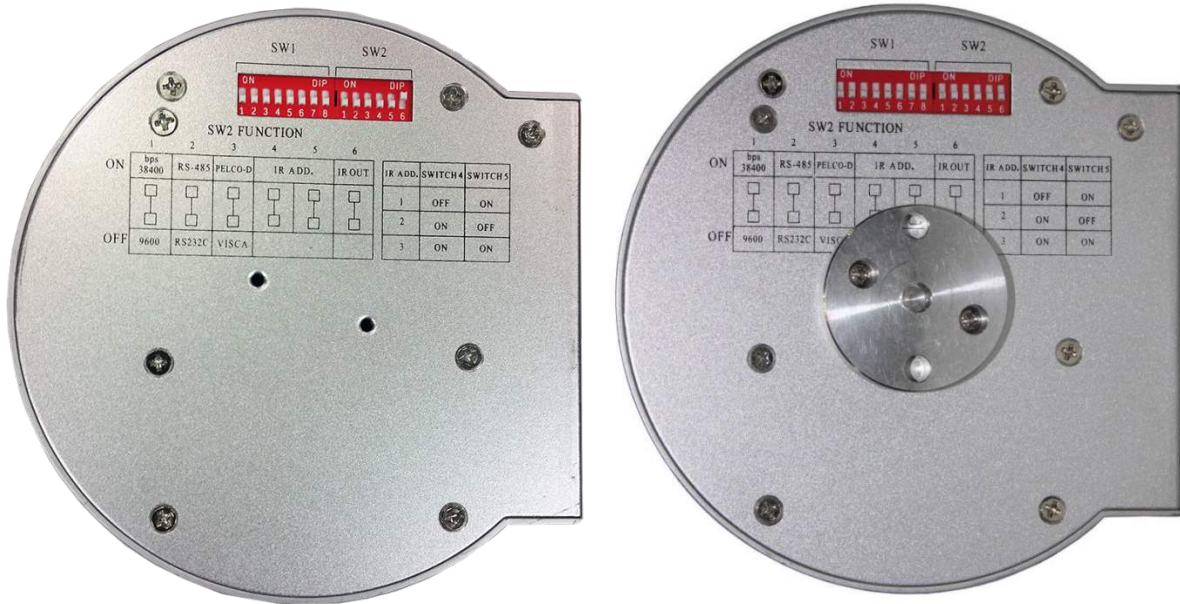
For connection to PC USB 2.0 port. Will also function in a USB 3.0 port as USB 2.0 device.



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3. Bottom View.....



1. Tripod

Will accept 1/4-20 bolt from 3rd party tripod, wall or ceiling mount using included tripod adapter.

2. Dip-Switch

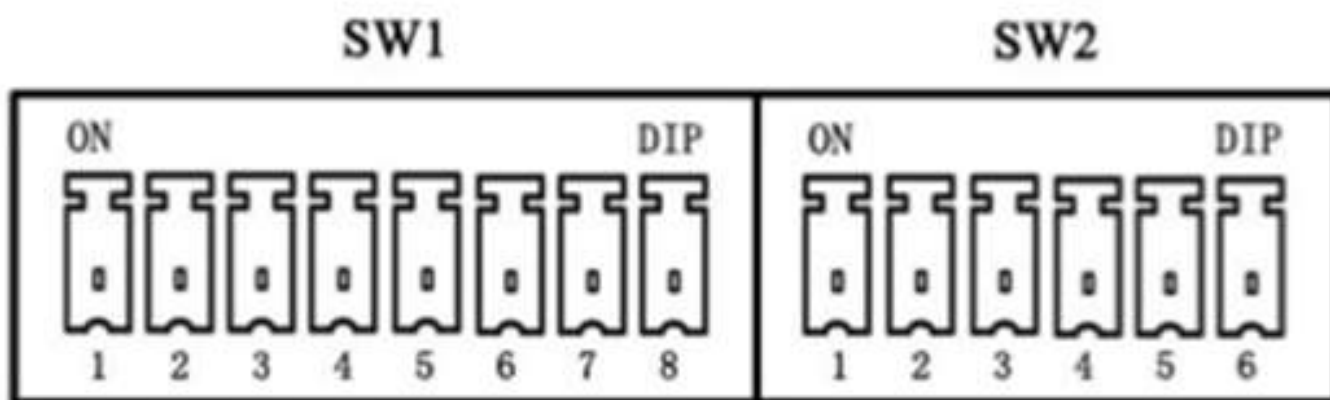
Used for selecting serial and IR communications settings.



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4. Dip-Switch Settings.....

Note: When changing Dip-Switch settings, make all changes with camera powered off.



SW1: Used for setting RS232 address.

Address	SW1 Switch State 1-7, (8 for stand-by)						
	DIP-1	DIP-2	DIP-3	DIP-4	DIP-5	DIP-6	DIP-7
1	ON	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF
3	OFF	OFF	ON	OFF	OFF	OFF	OFF
4	OFF	OFF	OFF	ON	OFF	OFF	OFF
5	OFF	OFF	OFF	OFF	ON	OFF	OFF
6	OFF	OFF	OFF	OFF	OFF	ON	OFF
7	OFF	OFF	OFF	OFF	OFF	OFF	ON

Notes:

1. Broadcast address: If the Joystick is 255 (all dip switches on), any Camera can be controlled by any address.
2. Test Address: If the dome camera address is 0 (all dip switches off), any address



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code can control the dome camera.

SW2: Used for communication settings.

SW2 DIP-1,2,3: Baud Rate, Communication Protocol

Baud Rate	SW2 DIP-1	Communication Mode	SW2 DIP-2	Communication Protocol	SW2 DIP-3
9600bps	OFF (Def)	RS-232	OFF (Def)	VISCA	OFF (Def)
38400bps	ON	RS-485	ON	PELCO-D	ON

SW2 DIP-4,5: IR Remote Control Receiving Address Table

IR Remote Address	SW2 Switch State (4-5)	
	DIP-4	DIP-5
0	OFF (Def)	OFF (Def)
1	OFF	ON
2	ON	OFF
3	ON	ON

SW2 DIP-6: IR Output

IR Out	SW2 DIP-6
Disabled	OFF (Def)
Enabled	ON

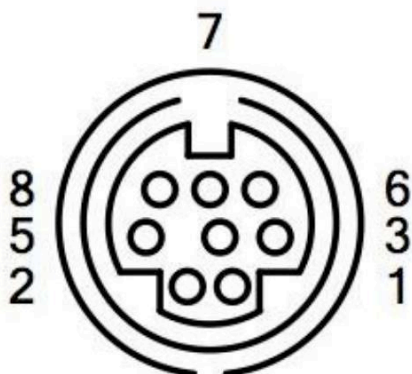


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[Cable Connection Info.....](#)

[VISCA RS-232C - IN Reference.....](#)

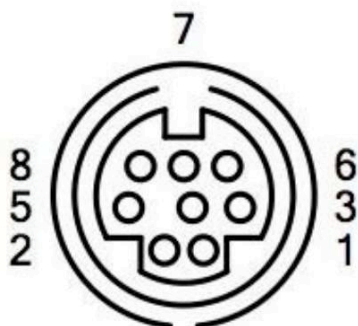
VISCA RS-232C IN



Pin S/N	Function
1	DTR IN
2	DSR IN
3	TXD IN
4	GND
5	RXD IN
6	GND
7	IR Commander Signal OUTPUT
8	NO Connection

[VISCA RS-232C - Out Reference.....](#)

VISCA RS-232C OUT



Pin S/N	Function	
	RS-232	RS-485
1	DTR OUT	TX+
2	DSR OUT	TX-
3	TXD OUT	
4	GND	
5	RXD OUT	
6	GND	
7		RS-485 -
8		RS-485 +

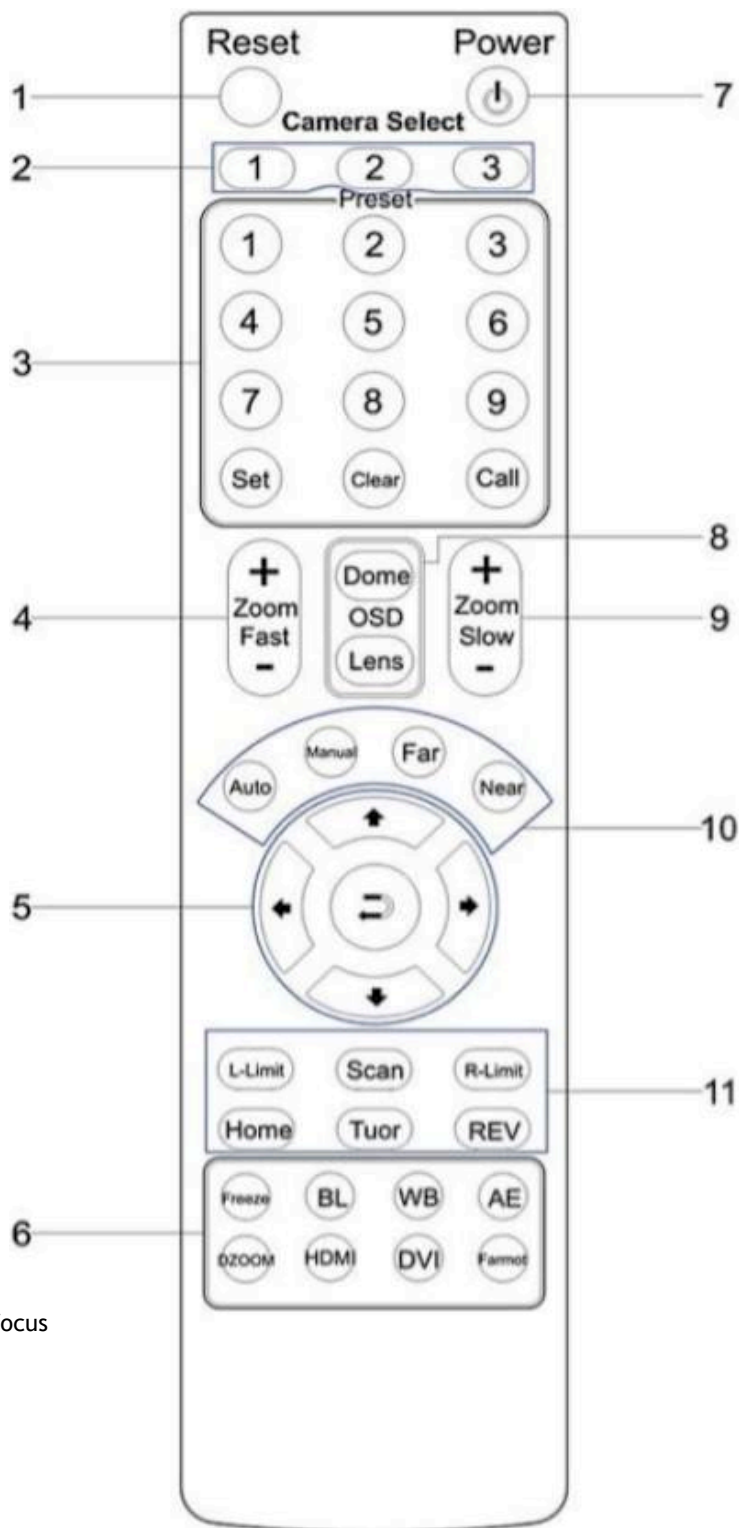


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IR Remote Controller (Note: Some buttons do not operate for all camera models)

1. **Reset:**
Restarts the camera and restores it to Factory Default settings.
(Note: Will delete all memory).
2. **Camera Selection**
Select Camera ID: 1, 2 or 3
3. **Preset Positions**
1-9: Preset Positions
Set: Setting Preset Position
Clear: Clear Preset Position
Call: Call Preset Position
Note: If you want to set (or call) the first preset position to 1, you should press number key "1", then press "Set" (or "Call") to set (call) the position.
4. **Fast Zoom in/out Control Zone**
+: Zoom in quickly
-: Zoom out quickly
5. **Pan/Tilt Controller**
 - ↑ Move Up
 - ↓ Move Down
 - ← Move Left
 - Move Right
 - ↺ Auto Pan
6. **Additional Function Zone**
Freeze: Image Freeze
BL: Back-light Compensation
WB: White Balance
AE: Auto Exposure
D Zoom: Digital Zoom
HDMI: Swap to HDMI video output
DVI: Swap to DVI video output
Format: Swap between different formats
7. **Power Supply Switch**
Switch for turning camera on (i.e. Stand-By mode vs. Working mode)
8. **OSD Menu Zone**
Dome OSD: Enter Pan Tilt Zoom OSD menu
Lens OSD: Enter lens OSD menu
9. **Slow Zoom In/Out Zone**
+: Zoom in slowly
-: Zoom out slowly
10. **Focus Control Zone**
Auto: Turn on auto focus Manual: Turn on manual focus
Far: Set focus at farther distance
Near: Set focus at nearer distance





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11. **Pan/Tilt Function Zone**
L-Limit: Set left boundary limit scanning position
Scan: Enable Boundary Scanning (Auto Panning)
R-Limit: Set right boundary limit scanning position
Home: Go to camera's Home position
Tour: Enable automatic patrol tour of presets
Rev: Enable image flip for ceiling mounting

OSD MENU.....

There is no On Screen Display for the HuddlecamaHD 10X 720.

Connection Instructions.....

1. Connect included Power Supply to the camera.
2. Wait for camera to come to Home Position.
3. Connect included USB 2.0 cable to camera and USB port of PC.
4. Select and configure camera in your software of choice.

NOTE: Failure to follow this sequence may result in no connection to PC.

Care Of The Unit.....

Remove dust or dirt on the surface of the lens with a blower (commercially available).

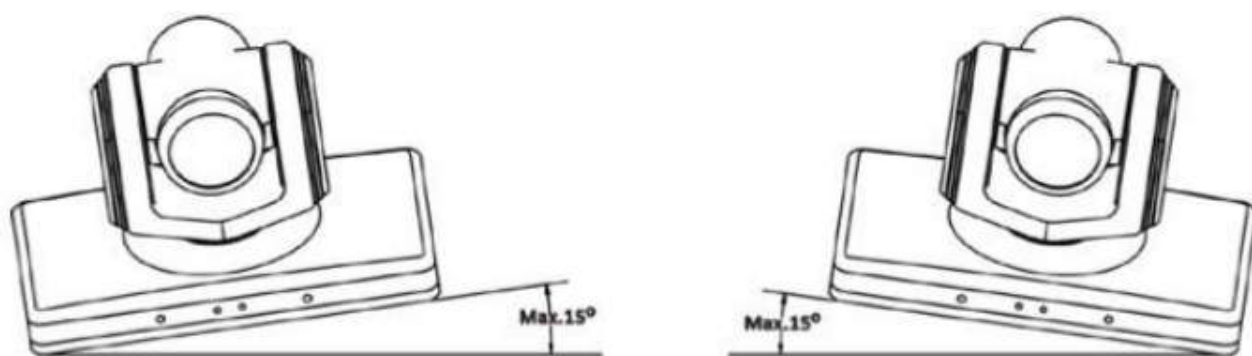


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[Installation Instructions.....](#)

[Desktop Installation.....](#)

When using the HuddleCam™ on a desk, Make sure that it will stand level. If you want to use the camera on an incline, make sure the angle is less than 15 degrees to ensure that the camera's pan and tilt mechanism operates normally.



[Tripod Installation.....](#)

When using the HuddleCam™ with a tripod, screw the tripod to the bottom of the camera. The tripod screw must fit below specifications:

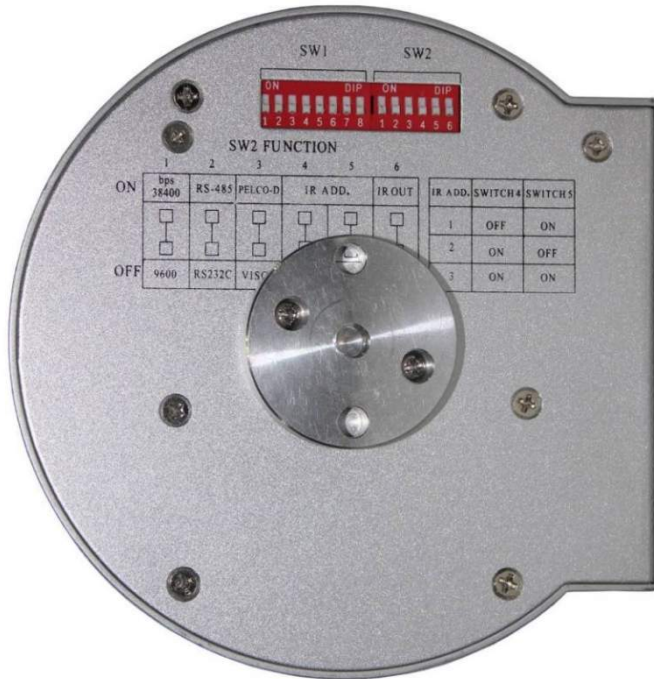
Note: Tripod must stand on a level surface.



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To fix the tripod mount to the bottom of the camera, use the supplied screws to hold it in place.



Then screw the tripod to the tripod bracket.





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Troubleshooting.....

Problem	Cause	Resolution
There is no power to the camera.	Power adapter is disconnected from mains or from camera.	Check the connections between the camera, power adapter and mains. If anything is disconnected, reconnect it.
Camera will not connect to the PC via USB.	USB cable is bad.	Try new USB Cable
	Camera connects sometimes.	Connect USB only after camera has completely booted.
Camera unable to pan, tilt, and/or zoom.	Menu is currently displayed on the screen.	Retry after exiting the menu.
	Pan, tilt or zoom range limit was reached.	Try to pan/tilt/zoom in the other direction.
Remote control not working.	The “camera select” button on the remote control is not set to match the “IR address” set on the camera dip switch.	Choose the correct “IR select” number to match camera settings.
Camera cannot be controlled via VISCA.	The connection between the PC and camera is incorrect.	Refer to Cable Connection Info section of this manual.
	Commands being sent are incorrect.	Refer to VISCA manual.
The Camera is not working at all.	No response or image from camera.	Disconnect power, and wait a few minutes, then connect the power again. Retry.